IN THE CLAIMS:

Please amend the claims as follows.

Claim 1 (Currently Amended): A photodetector comprising:

 $(K \times M \times N)$ photodiodes $PD_{k,m,n}$ (K being an integer of no less than 2; k being integers of no less than 1 and no more than K; M being an integer of no less than 1; k being integers of no less than 1 and no more than k; k being an integer of no less than 2; and k being integers of no less than 1 and no more than k), each generating an electric charge by an amount corresponding to an intensity of light incident thereon;

 $(M \times N)$ integrating circuits, one of each being provided in correspondence to K photodiodes $PD_{k,\,m,\,n}$ (k=1 to K) among the $(K \times M \times N)$ photodiodes $PD_{k,\,m,\,n}$ and each successively inputting and accumulating the electric charges generated at the K photodiodes $PD_{k,\,m,\,n}$ (k=1 to K) and outputting a voltage that is in accordance with the amount of the accumulated electric charges; and

A/D converting circuits, each A/D converting circuit being provided in correspondence to one of said (M×N) integrating circuits, and outputting a digital value according to the voltage outputted from the corresponding integrating circuit,

wherein the $(K \times M \times N)$ photodiodes $PD_{k,m,n}$ are arranged in M rows and $(K \times N)$ columns either two-dimensionally (when M = 2) or one-dimensionally (when M = 1), with each photodiode $PD_{k,m,n}$ being positioned at the position of the m-th row and (n + (k-1)N)-th column,

switches $SW_{k,m,n}$ are provided in a one-to-one correspondence with respect to photodiodes $PD_{k,m,n}$ and are arranged between the photodiodes $PD_{k,m,n}$ and signal lines $SL_{m,n}$.

ATTORNEY DOCKET NO.: 46884-5392

Application No.: 10/539.067

Page 3

each set of K photodiodes PD_{k,m,n} (k=1 to K) is connected via the corresponding

switches SWk,m,n to a signal line SLm,n,

each signal line $SL_{m,n}$ is connected to an input end of an integrating circuit, and

switches SWkmn on the same row are connected to the same control line CLkn, and the

opening/closing of each row of switches SWk,m,n is controlled together by a control signal that is

transmitted via the control line CLkn.

Claim 2 (Original): The photodetector according to Claim 1, further comprising CDS

circuits, each being arranged between said integrating circuit and said A/D converting circuit,

inputting the voltage output from the integrating circuit, and outputting a voltage expressing the

fluctuation of the input voltage over a fixed time.

Claim 3 (Canceled).